PPC-310 EHL
PPC-312 EHL
PPC-315 EHL
PPC-321W EHL

10.4"/12"/15"/21.5" Fanless Panel PC with Intel® Celeron® J6412 Processor



Features

- Industrial-grade 10.4"/12"/15"/XGA/21.5" FHD TFT LCD with 30K/30K/50K/70K backlight lifetime
- Durable true-flat touchscreen with 5-wire resistive/projected capacitive touch control
- Intel® Celeron® J6412 quad-core, 2.0 GHz, processor
- Up to 32 GB DDR4 SDRAM
- 1 x RS-232, 1 x RS-232/422/485, 2 x USB 2.0, and 2 x USB 3.1
- Compact, fanless design with solid aluminum alloy enclosure and IP66-rated front panel
- Supports E-key for wireless module
- Supports expansion via M.2 slot
- Supports Windows Embedded Linux and Android OS
- Supports VESA 75 x 75 mounting holes
- Dual 2.5GBASE-T Ethernet Supports Time-Sensitive Network(TSN) technology

Introduction

PPC-300(W) EHL is an industrial panel PC with 10.4"/12"/15"/XGA/21.5" FHD TFT LCD, powered by Intel Celeron quad core J6412 processor. With aesthetic aluminum alloy enclosure, PPC-300(W) EHL ensures fanless reliability and easy maintenance in diverse industrial applications. Moreover, it provides more faster and flexible connection via 2 x 2.5G Ethernet port, 2 x USB 3.1 and 1 x Type C (USB only). The PPC-300(W) EHL is ideal for MES, processing and general industrial equipment integration.

Specifications

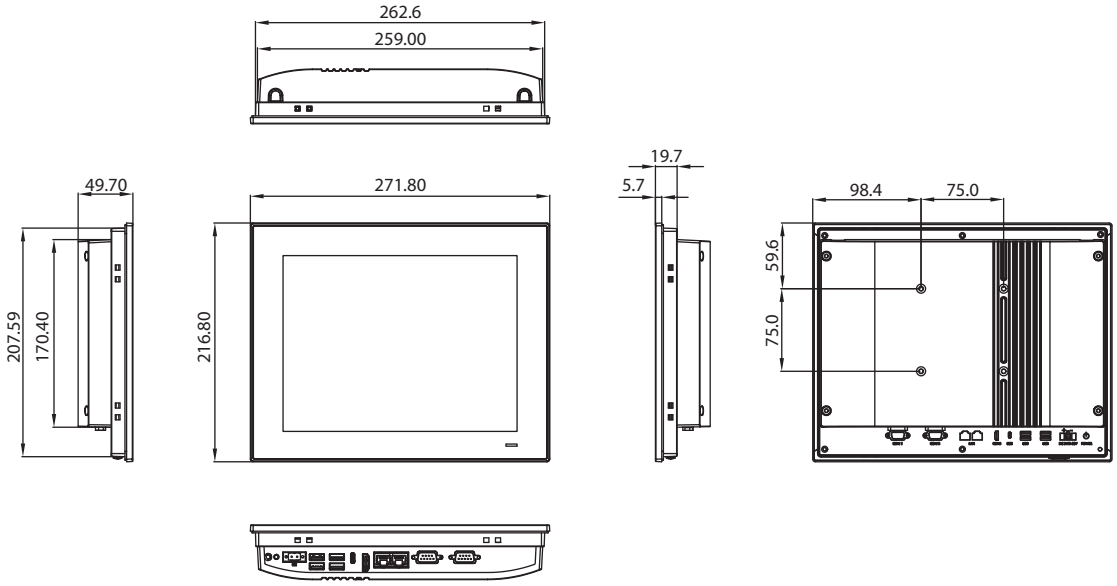
		PPC-310-RJ60A	PPC-310-PJ60A	PPC-312-RJ60A	PPC-312-PJ60A	PPC-315-RJ60A	PPC-315-PJ60A	PPC-321W-PJ60A
System	CPU	Intel® Celeron® J6412 quad core						
	Frequency	2.0 GHz						
	L2 Cache	1.5 MB						
	Memory	1 x SODIMM DDR4 3200 MHz (max. 32G)						
	Storage	1 x 2.5" SATA bay (optional; requires a bracket module for installation) 1 x M.2 slot: M key for storage (SATA only, 2242 & 2280)						
	Network (LAN)	2 x 10/100/1000/2500 Mbps Ethernet (Intel I226-LM)						
	I/O	2 x Serial ports: 1 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) ,2 x USB 2.0, 2 x USB 3.1 1 x TypeC (USB only) 1 x HDMI1.4 1 x TPM 2.0						
	Expansion	1 x M.2 2230 E-key for wireless card						
	Watchdog Timer	255 timer levels, set up by software						
Physical Characteristics	Dimensions	271.8 x 216.8 x 49.7 mm (10.7 x 8.5x 2 in)		317 x 246 x 52.7 mm (12.5 x 9.7 x 2.07 in)		392 x 314 x 55 mm (15.4 x 12.4 x 2.2 in)		558 x 350 x 61 mm (22 x 13.8 x 2.4 in)
	Weight	3.1 kg (6.83 lb)		3.6 kg (7.9 lb)		5 kg (11.02 lb)		7.2 kg (15.87 lb)
OS Support	OS Support	Microsoft® Windows 10 IOT LTSC(64-bit), Win11, Linux, Android						
Power Consumption	Input Voltage	12 ~ 30 V_{DC}						
	Power Consumption	35W (Burn-in test 8.1 in Windows 10, 64-bit)		40W (Burn-in test 8.1 in Windows 10, 64-bit)		45W (Burn-in test 8.1 in Windows 10, 64-bit)		50W (Burn-in test 8.1 in Windows 10, 64-bit)
LCD	Display Type	10.4" TFT LCD (LED backlight)		12" TFT LCD (LED backlight)		15" TFT LCD (LED backlight)		21.5" TFT LCD (LED backlight)
	Resolution	1024 x 768		1024 x 768		1024 x 768		1920 x 1080
	Viewing Angle	80 (left), 80 (right), 88 (up), 88 (down)		85 (left), 85 (right), 89 (up), 89 (down)		80 (left), 80 (right), 88 (up), 88 (down)		89 (left), 89 (right), 89 (up), 89 (down)
	Luminance (cd/m²)	350		500		300		250
	Contrast Ratio	1000		1000		1300		1000
	Backlight Lifetime	50,000 hr (min.)		30,000 hr (min.)		50,000 hr (min.)		50,000 hr (min.)
Touchscreen	Touch Type	5-wire resistive touch	Projected Capacitive Multi-touch	5-wire resistive touch	Projected Capacitive Multi-touch	5-wire resistive touch	Projected Capacitive Multi-touch	ELO Projected Capacitive Multi-touch
	Light Transmission	80±5% at 550 nm wavelength	88%	80±5% at 550 nm wavelength	88%	81±3% at 550 nm wavelength	88%	88%
	Controller	USB interface						
	Durability (Touches)	Greater than 35 million touches in one location without failure	Cover glass > 7H	Greater than 35 million touches in one location without failure	Cover glass > 7H	Greater than 35 million touches in one location without failure	Cover glass > 7H	Cover glass > 7H
Environment	Operating Temperature	-10 ~ 50°C (14 ~ 122°F)						
	Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)						
	Relative Humidity	95% @ 40 °C (non-condensing)						
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27						
	Vibration	Operating Random Vibration Test, 5 ~ 500Hz, 2Grms with SSD, follow IEC 60068-2-64						
	EMC	CE, FCC Class B, BSMI, UKCA, VCCI						
	Safety	CB, CCC, UL, UKCA						
	Front Panel Protection	IP66 compliant						

All product specifications are subject to change without notice.

Dimensions

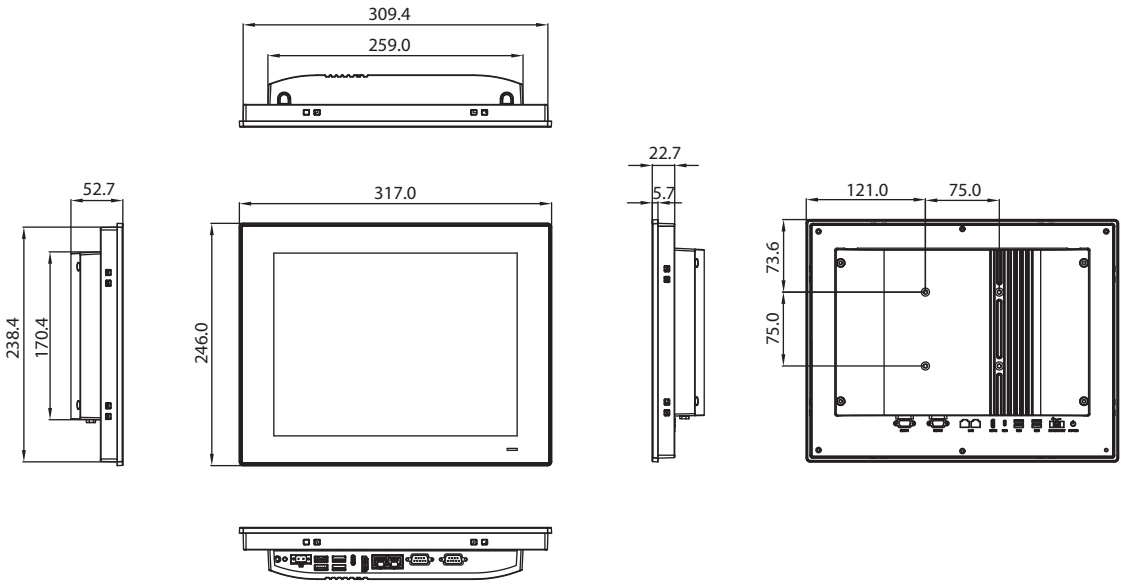
Unit: mm

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Panel Cutout Dimensions: 265 x 210 mm (10.43 x 8.26 in)

PPC-312 EHL

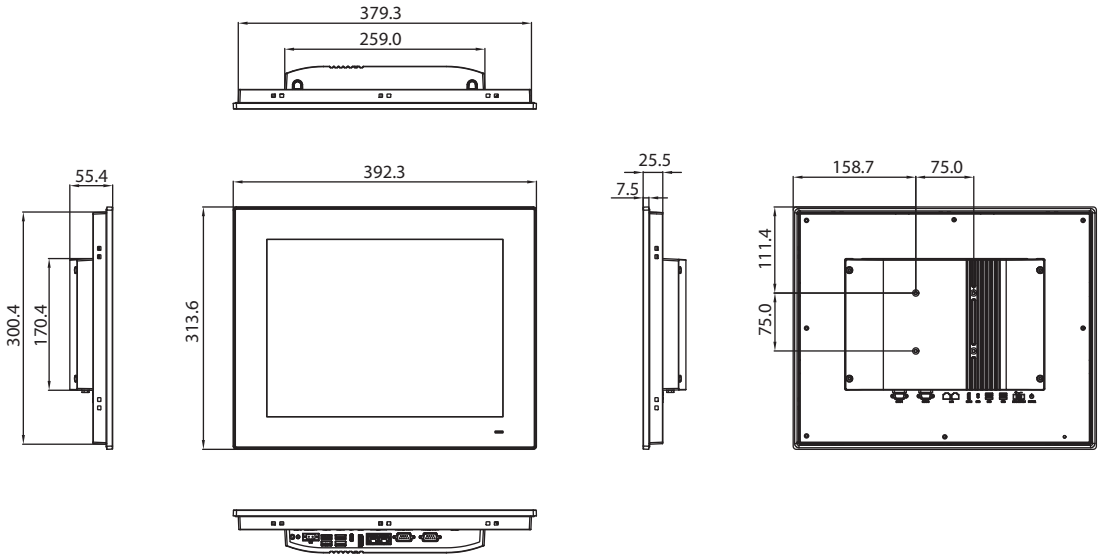


Panel Cutout Dimensions: 311 x 240 mm (12.24 x 9.44 in)

Dimensions

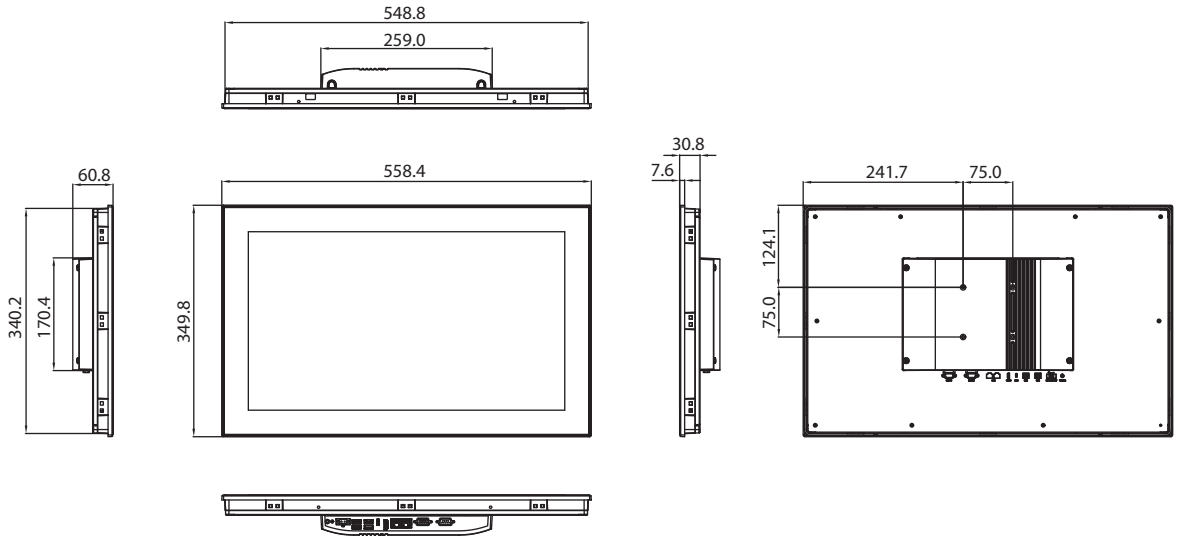
Unit: mm

PPC-315 EHL



Panel Cutout Dimensions: 382 x 303 mm (15.03 x 11.92 in)

PPC-321W EHL



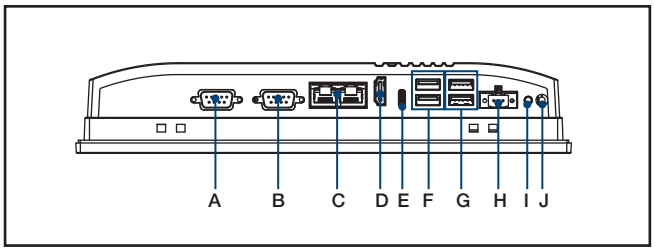
Panel Cutout Dimensions: 550.3 x 341.8 mm (21.66 x 13.45 in)

Ordering Information

Part Number	Description
PPC-310-RJ60A	10.4" PPC w/Intel J6412, Resistive
PPC-310-PJ60A	10.4" PPC w/Intel J6412, P-Cap
PPC-312-RJ60A	12" PPC w/Intel J6412, Resistive
PPC-312-PJ60A	12" PPC w/Intel J6412, P-Cap
PPC-315-RJ60A	15" PPC w/Intel J6412, Resistive
PPC-315-PJ60A	15" PPC w/Intel J6412, P-Cap
PPC-321W-PJ60A	21.5" PPC w/Intel J6412, P-Cap
98R3P300020	PPC-300 EHL 2.5" SSD bracket module
96PSA-A90W19OT-3	Power adapter 100-240V 90W 19V
PPC-WLAN-D2	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna
PPC-ARM-A03	ARM VESA Standard (A-CLEVER) for PPC series
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-Stand-A1E	Stand for PPC series
1700001524	Power cord 3P UL 10A 125V 1.8M
170203183C	Power cord 3P Europe (WS-010+083) 183cm
1700008921	Power cord 3P/3P 1.8M PSE
96CB-POWER-B-1.8MB	Power code 3P CCC(China) 1.8M
98R3P300010	PPC-300 RFID Read only 13.56MHz&125k

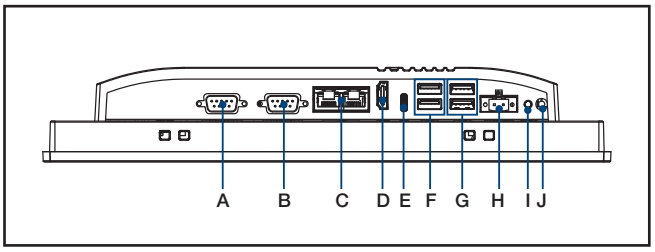
I/O View

PPC-310 EHL



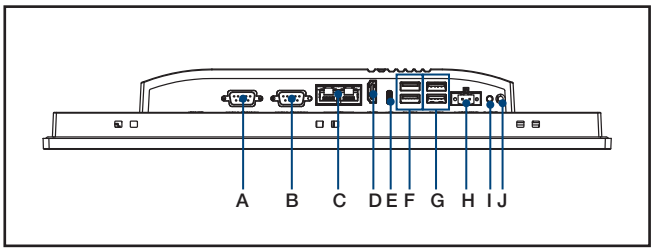
A. 1 x RS-232
B. 1 x RS-232/422/485
C. 2 x LAN
D. 1 x HDMI
E. 1 x Type C (USB only)
F. 2 x USB 3.1
G. 2 x USB 2.0
H. DC-In
I. Power Switch
J. Pre cut hole for power button cable extend

PPC-312 EHL



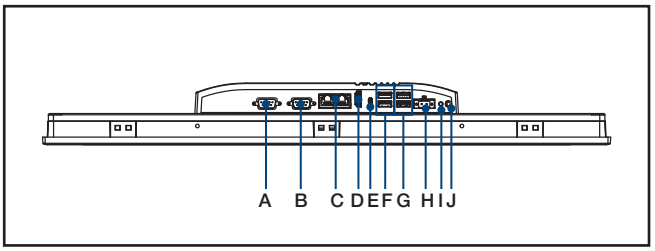
A. 1 x RS-232
B. 1 x RS-232/422/485
C. 2 x LAN
D. 1 x HDMI
E. 1 x Type C (USB only)
F. 2 x USB 3.1
G. 2 x USB 2.0
H. DC-In
I. Power Switch
J. Pre cut hole for power button cable extend

PPC-315 EHL



A. 1 x RS-232
B. 1 x RS-232/422/485
C. 2 x LAN
D. 1 x HDMI
E. 1 x Type C (USB only)
F. 2 x USB 3.1
G. 2 x USB 2.0
H. DC-In
I. Power Switch
J. Pre cut hole for power button cable extend

PPC-321W EHL



A. 1 x RS-232
B. 1 x RS-232/422/485
C. 2 x LAN
D. 1 x HDMI
E. 1 x Type C (USB only)
F. 2 x USB 3.1
G. 2 x USB 2.0
H. DC-In
I. Power Switch
J. Pre cut hole for power button cable extend

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact Advantech for certificate compliance.